

## Product datasheet for MC224159

### Oplah (NM\_153122) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Oplah (NM\_153122) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Oplah  
**Synonyms:** 1700010G02Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224159 representing NM\_153122  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGGGCAGCCCAGAAGAGCGCTTCCATTTGCCATCGACCGTGGTGGCACCTTTACAGATGTCTTTGCC  
 AGTGCCAGGAGGGCATGTACGTGTCTGAAGTGTCTCAGAGGATCCTGCCAACTATGCAGACGCACC  
 CACAGAGGGCATCCGCCGAATCTAGAGCAGGAGAGGGGTGTGCTGCTGCCCCGAGGCCGCCGCTAGAC  
 ACCAGTCACATCGCCAGCATCCGCATGGGTACCACCGTGGCCACCAATGCTCTGTTGGAACGGCAGGGAG  
 AACGGGTGGCACTGCTGGTACTCGCGTTTCCGAGACCTGCTGCATATTGGCACTCAGGCCGCCGAGC  
 CCTCTTTGACCTGGCTGTGCCATGCCAGAGGACTGTATGAGGAGGTGCTGGAGGTGGACGAGCGAGTG  
 CTGCTGTATCGTGAGAACCCGGTGCCGGCTCTCCCGTCAAAGGCTGTACAGGGGACCTGCTAGAGATAC  
 AGCAGCCTGTGGATCTGGCAGCCCTGCGTGGGAAGCTGGAGGGCTCTTGACTCGGGGCATTACAGCCT  
 GGCAGTGGTACTCATGCATTCGTACACGTGGGCCAGCAGCAGCAGGTGGGCACACTGGCCCGGGAG  
 CTGGGCTTACGCACGTCTCCTGTCTCGGAAGTCATGCCATGGTGGGATTGTTCTCCGGGGCATA  
 CGGCCTGTGCAGATGCTTACCTCACTCCACCATCCAGCGCTATGTGCAGGGCTTCCGCCGAGGCTTCCA  
 GGGCCAGCTAAAGAATGTGCAAGTCTCTTCATGCGCTCCGATGGTGGCCTGGCACCCATGGATGCCTTC  
 AGTGGCTCCCGGGCTGTGCTCTGCGCCTGCTGGTGGTGGTGGTGGTACTCCACTACCACCTACCAGC  
 TGGAAGGTGGTCAGCCTGTATTGGCTTTGACATGGGAGGCACATCCACAGATGTGAGCCGCTATGCTGG  
 AGAGTTTGAGCACGTCTTTGAGGCTAGCACGGCAGGTGTACCCTCCAGGCCCCACAGCTGGACATCAAT  
 ACGGTGGCAGCTGGCGGGGGTCCCGCCTCTTCTTCAGGTCTGGCCTCTTTGGTTGGTCCAGAGTCAG  
 CAGGTGCCACCCAGGTCTGCCTGCTACCGCAAAGGGGCTCTGTGACAGTGACAGATGCTAATCTGGT  
 TCTGGTCCGCTGCTGCCTGCCTCCTTCCCTGCATTTTGGGCCAGGAGAAGACCAGCCATTGTCTCCC  
 GAGGCTTCCCGAAAGGCTCTAGAGGCTGTGCCATGGAGGTCAACAGTTTCTTGCCAGTGGACCCTGCC  
 CAGCTTCCAGCTAAGTCTGGAGGAGGTGGCCATGGGGTTTGTGCGTGTGGCCAAGCAAGCCATGTGCC  
 GCCTATCCGTGCCCTCACACAGGCACGAGGCCACGACCCTCAGCCCATGTACTGGCTTGTGGAGGA  
 GCCGGTGGCAACACGCTTGTGCCATTGCCCGGCCCTGGGTATGGCACTGTGCATATTCACAGGCACA



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GCGGGCTGCTGT CAGCACTGGGACTGGCCTTGGCCGATGTGGTTCACGAAGCACAGGAGCCCTGTCCCT  
 GTCTTACACACCTGAAACCTTTGCACAACCTGGACCAGAGACTGAGCCGCCTGGAGGAGCAGTGTGTGGAT  
 GCCCTGCAGGCCAGGGCTTCTCTAGGTCTCAGATCAGCACCGAGAGCTTCTGCACCTTCGCTACCAAG  
 GCACTGACTGTGCCCTAATGGTGTCTGCCAATCAGCATCCGGCCACAACCTGCTCACCCCGTGTGGTGA  
 CTTTGGAGCAGCGTTTGTGAGAGGTACATGAGAGAGTTGGCTTCATCATTCTGAGCGCTCGGTGGT  
 GTAGATGATGTGCGTGTGAGGGAACTGGCCGTAGTGGACTTCAGCTGGAGGAGACCTCCAAAATCCAGA  
 GTGGACCTCCGCATGTGAAAAGGTGACCCAGTCTACTTTGAAGGGGTTATCAGGAGACTCCCGTGTA  
 CCTTTTAGGAGAACTAGGCTACGGGCATCAGCTTCAAGGGCCCTGCCTGATCATTGACAACAACAGCACC  
 ATCCTTGTAGAACCAGGTTGCCAAGCGGAGGTGATTGAGACAGGGGACATCCGCATTTCTGTGGGAGCCG  
 AGGCTCCCAGTATGATAGACACCAAGCTTGACCCCATCCAGTTGTCTATTTTCTCACACCGTTTCATGAG  
 CATTGCTGAGCAGATGGGCCGATCCTACAGCGCACAGCCATCTCTACCAACATCAAGGAACGCCTCGAC  
 TTCTCCTGTGCCCTTTTGGCCAGATGGGGCCCTCGTCTCCAATGCTCCCCACATTCTGTGCACCTGG  
 GTGCCATGCAAGAGACTGTACAGTTCAGATTCAGCACTTAGGAGCCGACCTCCATCCTGGTGTGTGT  
 GCTTAGTAACCATCCCAGTGCAGGGGGCAGCCATCTTCTGACCTGACTGTCATCACACCGGTGTTTTGG  
 CCAGGTGAGTCGAGGCCGTGTGTCTACGTGGCTAGCCGAGGGCACCACGCGGACATTGGAGGTATCACCC  
 CGGGTTCTATGCCTCCTCACTCTACCACACTGCAGCAGGAGGGTGCCGTTTTTCTGTCTCAAACCTGGT  
 CCAGGGAGGAGTCTTCCAGGAAGAGGGCGTGACAGAGGCCCTTACAGGCCCCAGGCAAGATCTCTGGCTGC  
 AGTGGGACCAGGAACCTGCATGACAACCTGTCCGATCTCCGTGCCAGGTGGCAGCTAACAGAAAGGCA  
 TCCAGCTGGTGGGAGAGCTGATCGGACAGTATGGCTTAGATGTGGTGCAGGCCTATATGGGCCATATTCA  
 GGCAAATGCTGAACTAGCAGTGCAGACATGCTTCGTGCTTTTGGAACTCCCGCCAGGCCAGGGGCCGTG  
 CCCCTGGAGGTGTCTGCCAAGGATCACATGGACGATGGCTCTCCCATCTGCCTGCATGTTTCAGATCAACC  
 TGAATCAGGGCAGCGCTGATTTGACTTCAGTGGTCTGGGTCTGAGGTGTTGGCAATCTCAATGCCCC  
 TCGAGCCATAACACTGTCTGCTCATCTATTGCTTGGCTGTCTAGTGGGCCGTGACATCCCACCTAAC  
 CAGGGTTGCCTGGCTCCTGTGCAAGTCATAATTCCCAAAGGCTCCATATTGGATCCATCCCAGAGGCAG  
 CAGTGGTTCGGAGGCAACGTGCTCACATCTCAGCGAGTCTGGATGTCATCCTGGGGGCTTTTGGGCCTG  
 TGCAGCCTCCCAGGGCTGCATGAACAATGTGACCCTGGGCAATGCCCGTATGGGCTACTATGAGACAGTA  
 GCTGGTGGTGCAGGCTGCAGGCCCTGGTGGCATGGGCGCAGTGGTGTACACAGTACATGACCAACACGC  
 GCATTACGGACCCAGAGATTTTGGAGAGCCGTATCCAGTTATCCTGCGCCGCTTTGAGCTGAGGCCAGG  
 CTCTGGAGGCCAGGCCGCTTCCGGGGAGGTGATGGCGTAGTCCGAGAGCTGGTCTTTCGGGAAGAGGCC  
 CTACTGTCTGTCTCACGGAGCGCCGCGCTTCCAGCCTTATGGCCTCCACGGGGGAGAGCCTGGTACAC  
 GTGGCTTAAACCTCCTGATCAGAAAAGATGGGCGCACAGTGAATCTGGGCGGCAAGACATCCGTGACTGT  
 GTATCCCGGGGACGCGTTCTGCCTCCACACGCCTGGGGGTGGGGGCTATGGAGACCCGGAGGCCAGCA  
 CCACCACCAGGCTCGCCCCGCTATATCCAGCCTTCCAGAGCGAGGCAGTGTGTATGAGTACCGCCGCG  
 CCCAGGAAGCAGTATGA

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-RsrII

**ACCN:**

NM\_153122

**Insert Size:**

3867 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:**

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_153122.2](#), [NP\\_694762.1](#)

**RefSeq Size:** 3970 bp

**RefSeq ORF:** 3867 bp

**Locus ID:** 75475

**UniProt ID:** [Q8K010](#)

**Cytogenetics:** 15 D3

**Gene Summary:** Catalyzes the cleavage of 5-oxo-L-proline to form L-glutamate coupled to the hydrolysis of ATP to ADP and inorganic phosphate.[UniProtKB/Swiss-Prot Function]